FLORENCE COPPER INC.



1575 W. Hunt Highway, Florence, Arizona 85132 USA

florencecopper.com

March 12, 2019 File No. 132473-003

ADEQ Water Quality Compliance Section Mail Code 5415B-1 1110 West Washington Street Phoenix, Arizona 85007

Attention: Mr. Tracy Bunch

Subject:Weekly Monitoring Report for Week Ending 03/02/2019
Florence Copper, Production Test Facility
Aquifer Protection Permit No. 106360, LTF 61845

Dear Mr. Bunch:

Florence Copper is submitting this report in accordance with Table 4.1-8 and Section 2.7.4.4 of the Production Test Facility Temporary Aquifer Protection Permit (APP) No. 106360.

In accordance with Table 4.1-8 of the APP, this report includes In-Situ Best Available Demonstrated Control Technology (BADCT) compliance monitoring for the PTF that is required to be reported on a weekly basis including:

- Recovered volume to injection volume,
- · Inward hydraulic gradient, and
- Maximum injection pressure.

A map showing the location of the PTF injection, recovery, and observation wells is included as Figure 1.

Recovered Volume to Injection Volume

A summary of the injected and recovered volumes for the week 02/24 to 03/02/2019 is included in Table 1. The total injected and recovered volumes for the PTF as a daily total are also presented on Figure 2. Injection and recovery flows on February 28 – March 1 were reduced to adjust for UIC-mandated temperature logging of Injection wells I-02 and I-03.

During the reporting period no exceedance of the alert level was measured for recovered volume to injected volume. The alert level is the recovered volume shall exceed the injected volume.

Inward Hydraulic Gradient

Table 2 includes a summary of water levels in the recovery and observation well pairs. Hydrographs showing the water level elevation for each recovery well and observation well pair are included in Figure 3.



During the reporting period UIC Permit-required temperature logs were run on recovery wells R-09 (PW-13) on Feb 27, and R-03 (PW-07) and R-04 (PW-08) on March 2nd. Temperature logs were also run on injection wells I-02 and I-03 on March 1st. Injection and recovery well flows were adjusted to maintain hydraulic gradient, and there was no exceedance of the alert level for the inward hydraulic gradient. The alert level for the inward hydraulic gradient is that the water level elevation in the paired observation well must be a minimum of 1 foot higher than the paired recovery well.

Injection Pressure

A summary of the injection pressures during the reporting period is included as Table 3.

During the reporting period no alert levels were exceeded for injection pressure, the injection pressure limit for the injection wells is limited by the fracture gradient of 0.65 pounds per square inch (psi) per foot. For the PTF injection wells this pressure limit equates to 104 psi.

Please contact me at 520-374-3984 if you require any additional information.

Sincerely,

Florence Copper Inc.

Dan Johnson

Vice President – General Manager

Attachments:

Tables and Figures

cc: Nancy Rumrill, United States Environmental Protection Agency

TABLES

Table 1. Injected and recovered volumes (gallons) for the week 02/24 to 03/02/2019

		Daily		
		Injection	Daily Recovery	
Date	Time	Flow	Flow	PLS/Raff
2/24/2019	7:00:00 AM	311500	344500	1.11
2/25/2019	7:00:00 AM	305800	339400	1.11
2/26/2019	7:00:00 AM	302700	340500	1.12
2/27/2019	7:00:00 AM	311300	347000	1.11
2/28/2019	7:00:00 AM	177100	209500	1.18
3/1/2019	7:00:00 AM	236100	268600	1.14
3/2/2019	7:00:00 AM	311800	343100	1.10
Weekly Aver	age	279471	313229	1.12

Table 2. Average daily water levels in the recovery and observation well pairs (amsl)

Well Pairs							
Avg Elev	2/24/19	2/25/19	2/26/19	2/27/19	2/28/19	3/1/19	3/2/19
PW-05 (R-01)	1244.29	1245.10	1242.04	1241.97	1247.29	1249.38	1246.45
O-01	1249.91	1250.83	1250.81	1250.93	1251.17	1251.25	1251.93
O-07	1249.22	1249.93	1249.36	1249.30	1250.79	1251.91	1251.48
PW-06 (R-02)	1247.20	1248.07	1247.62	1247.86	1248.23	1248.20	1248.69
O-01	1249.91	1250.83	1250.81	1250.93	1251.17	1251.25	1251.93
O-02	1250.90	1251.71	1251.76	1252.07	1251.27	1250.70	1252.32
PW-07 (R-03)	1248.80	1249.30	1249.72	1250.21	1247.28	1245.08	1248.97
O-02	1250.90	1251.71	1251.76	1252.07	1251.27	1250.70	1252.32
O-03	1251.94	1252.41	1252.86	1253.19	1250.49	1248.56	1252.22
PW-08 (R-04)	1248.48	1248.81	1249.86	1250.05	1247.44	1245.74	1248.56
O-03	1251.94	1252.41	1252.86	1253.19	1250.49	1248.56	1252.22
PW-09 (R-05)	1246.45	1246.81	1245.37	1245.49	1246.54	1246.39	1247.47
O-04	1250.23	1250.61	1249.84	1249.87	1250.78	1251.10	1251.80
PW-10 (R-06)	1243.92	1244.64	1238.36	1238.18	1245.59	1248.44	1245.71
O-04	1250.23	1250.61	1249.84	1249.87	1250.78	1251.10	1251.80
O-05	1249.40	1249.89	1248.79	1248.74	1250.60	1251.83	1251.36
PW-11 (R-07)	1247.02	1247.43	1245.46	1245.32	1248.43	1250.80	1249.17
O-05	1249.40	1249.89	1248.79	1248.74	1250.60	1251.83	1251.36
O-06	1248.98	1249.51	1248.52	1248.41	1250.54	1251.93	1251.23
PW-12 (R-08)	1244.15	1244.83	1240.77	1240.57	1246.79	1249.06	1246.29
O-06	1248.98	1249.51	1248.52	1248.41	1250.54	1251.93	1251.23
O-07	1249.22	1249.93	1249.36	1249.30	1250.79	1251.91	1251.48

Table 3. Injection well pressures (psi)

Ending	I-01		I-02		I-03			I-04				
Date	AVG	MIN	MAX									
2/24/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/25/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/26/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/27/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2/28/2019	0.00	0.00	0.00	*	*	*	*	*	*	0.00	0.00	0.00
3/1/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3/2/2019	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

^{*} I-02 and I-03 pulled for temperature logging

FIGURES

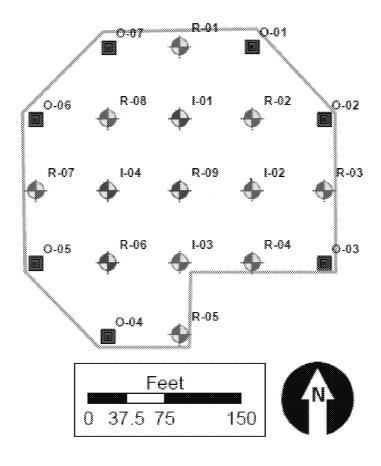


Figure 1. PTF injection, recovery, and observation well locations

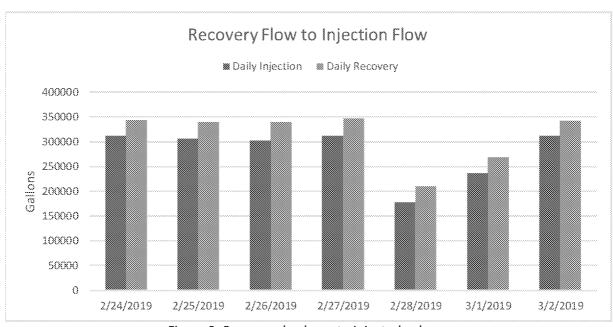


Figure 2. Recovered volume to injected volume

Figure 3

